



Digital Security System System resources description

LPR - Automobile License Plate Reading

Digifort LPR is an intelligent module that, by using OCR resources for automatic license plate recognition on vehicles, enables the reliable identification of those vehicles passing on streets, condominiums, parking lots, shopping centers, etc.

When passing by the surveillance camera, Digifort LPR snaps a picture and records a video of the vehicle's license plate, registering it in an image database with date, time and camera, allowing different types of searches and a more effective management of your property.

AVAILABLE RESOURCES IN DIGIFORT LPR

ARCHITECTURE

- It allows operation via a physical and virtual loop;
- It features license plate character recognition in three levels of criticality: Low, Medium and High, that appear on the surveillance screen in different colors to alert the user.
- It has its own database for storage of recognized license plates along with the photo, date and time.
- It allows the option of including, in the database, any information which might be related to a recognized license plate, such as: A car belonging to the board of Directors, employee car, car with authorized entry, etc.
- The database can be integrated with external databases for identification of possible irregularities, such as: stolen vehicle, car with restrictions, driver with expired driver's license, etc.
- It features the option of saving the images from recognized license plates in an external folder instead of using a database.
- It allows the use of IP cameras or converted analog cameras with video-servers.
- It allows the use of Ethernet I/O modules, which enable the activation of specific functions, such as: the opening and closing of gates, etc.
- It sends a visual and audible pop-up on the surveillance screen when some event is detected, for example: stolen car.
- It features unlimited resources for database recording.



Digital Security System

System resources description

- It allows the recognition of automobile license plates at any speed, being only limited by camera resources (shutter), and without the need of special or additional licenses.
- It features automatic distribution of the images received between the existing LPR servers.
- It features a Failover capability, in which if a server fails, a second one will automatically assume the functions without the need for human intervention.
- It allows the license plate identification process on vehicles to be centrally done, solely relying on the means of communication used between the cameras and servers.
- It enables the capture of incoming vehicle images (by the front of the vehicle) and outgoing (by the rear of the vehicle), at the discretion of the user.
- It features a mask system for the license plate list. The masks can be used to generate events for a set of license plates that satisfy the mask configurations.
- During image capture, it allows the selection of how many frames per second shall be used.
- It captures images in the MJPEG, MPEG-4 or H.264 formats for license plate recognition.
- It allows importing and exporting license plate records with information related to the owner of the vehicle.
- It allows the exclusion of several license plates simultaneously.
- It allows the exclusion of old LPR records and to establish a time frame for the retention of these records in the database.
- It enables the scheduling the activation of LPR configurations.
- It is possible to associate peripheral or secondary cameras to the main camera (which will perform the OCR reading) with the purpose of shooting the sides and rear of the vehicle.
- It allows searching by the code of originality, of an image generated in a report.



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IMAGE REPRODUCTION AND SEARCH

- It allows a simple search using the license plate full information.
- It allows searching by date.
- It allows searching by camera.
- It allows searching by advanced filters
- It allows saving or generating reports via advanced searches.
- It reproduces a video on the surveillance client of the captured license plates.
- It allows triggering via software the zoom in and zoom out of the license plates.
- It allows searching vehicles being followed by suspicious vehicles.
- It prints the image with a code of originality for proof of veracity.
- It generates a document relating to the vehicle with the front and secondary images, if any, generated by cameras associated with the main OCR camera and with the printed code of originality, enabling searches and future prints for proof of veracity.
- It allows the display of unrecognized license plates processed by the trigger.
- It provides a graph of result reliability. This graph represents character recognition reliability.
- It provides graphs on correct readings based on the reliability graph.

DISPLAY ON THE SURVEILLANCE CLIENT

Side bar with the latest recognized license plates

Panel with the image of the recognized license plate

Panel with the live camera and associated peripheral cameras

Panel with information on the license plate

Panel containing the lists in which the license plate was recognized

The new interface further allows the operator to register the license plates directly via the surveillance client.